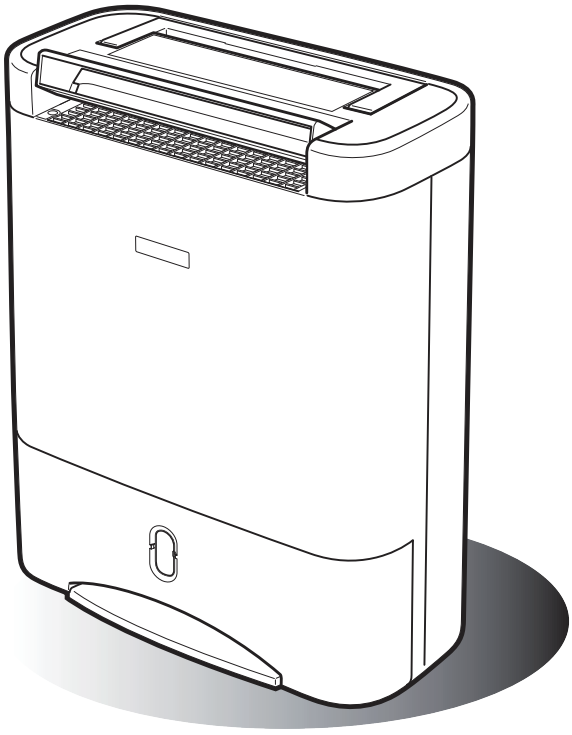
keeping your home
safe and clean

USERS MANUAL

Desiccant Dehumidifier
Model: ECO DD322FW CLASSIC



Read This Manual

Inside you will find many helpful hints on how to use and maintain your dehumidifier properly Just a little preventative care on your part can save you a great deal of time and money over the life of your dehumidifier. You'll find many answers to common problems in the chart of troubleshooting tips. Review the chart of Troubleshooting Tips before calling your service engineers.

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IMPORTANT SAFETY INSTRUCTIONS

PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE OPERATING.

WARNING - This appliance is intended for use in a domestic environment only. Any other use is not recommended by the manufacturer and may cause fire, electrical shocks or other injury to person or property.

When using electrical appliances, basic safety precautions should always be followed:

1. Do not operate the unit with a damaged cord or plug, after it malfunctions or has been dropped or damaged in any way. Return to an authorized service facility for examination and repair.
2. This unit should always be kept in an upright position to avoid any damage. Locate the unit on a flat stable surface.
3. Check the household voltage to ensure it matches the units rated specification before operating.
4. Operate this unit in an ambient temperature between 1°C and 40°C.
5. Ensure that the air inlets and outlets are not blocked or covered.
6. Do not place the unit too close to curtains or other objects - min 40cm.
7. When using the "LAUNDRY MODE" to speed up the drying of wet clothes in the room, please keep the clothing at a safe distance from the unit to prevent water from dropping onto the unit.
8. Never place anything on top of the unit and do not cover with any kind of material while in use.
9. This product is intended for domestic and light office use ONLY and not for commercial, industrial or outdoor use.
10. To protect against electrical shocks, do not immerse unit, plug or cord in water, or spray with liquids.
11. Never unplug the power cord without press the "ON/OFF" key to off first, as this could damage the unit.
12. Always unplug the unit when not in use or moving location. To disconnect from the power supply, grip the plug and pull from the power socket. Never pull by the cord.
13. Always empty the water tank before storing the unit away.
14. Close supervision is necessary when any appliance is used by or near children and pets.
15. Do not run power cord under carpeting, or cover with rugs or runners. Arrange the cord away from areas where it may be tripped over.
16. Never operate or store the unit in direct sunlight.
17. To repair the unit, take it to a qualified service engineer. Repairs carried out by unqualified people may cause damage to the unit or injury to persons or property and void the warranty.
18. Where possible, avoid the use of an extension cable as they may overheat and cause a risk of fire. Only use an extension cord after ensuring it is in perfect condition.
19. Do not use the unit without the air filter.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

SAVE AND READ THESE IMPORTANT SAFETY INSTRUCTIONS

BS PLUG WIRING

Wiring Instructions: Should it be necessary to change the plug please note the wires in the mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL
BROWN - LIVE
GREEN AND YELLOW - EARTH

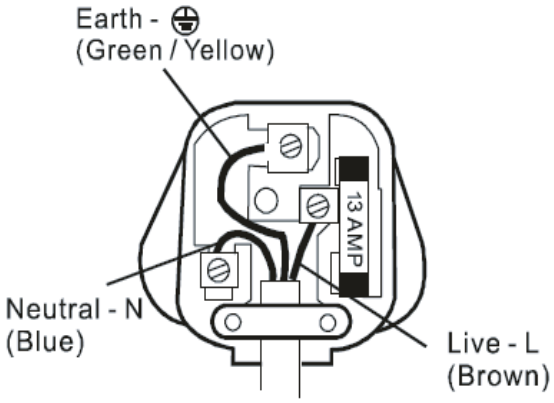
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

1. The **BLUE** wire is the **NEUTRAL** and must be connected to the terminal which is marked with the letter **N** or coloured **BLACK**.
2. The **BROWN** wire is the **LIVE** and must be connected to the terminal which is marked with the letter **L** or coloured **RED**.
3. The **GREEN/YELLOW** is the **EARTH** and must be connected to the terminal which is marked with the letter **E** or ⏚ or coloured **GREEN** OR **GREEN/YELLOW**.
4. Always ensure that the cord grip is positioned and fastened correctly.

If a **13A** (**BS 1363**) fused plug is used it must be fitted with a **13A** fuse. If in doubt consult a qualified electrician.

Wiring for a 13 Amp Plug (BS1363)

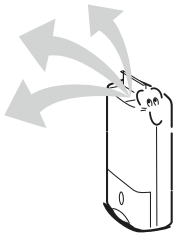
Please note. The Earth Terminal is marked with the letter **E** or ⏚ Earth Symbol.

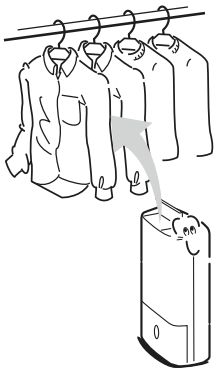


FEATURES

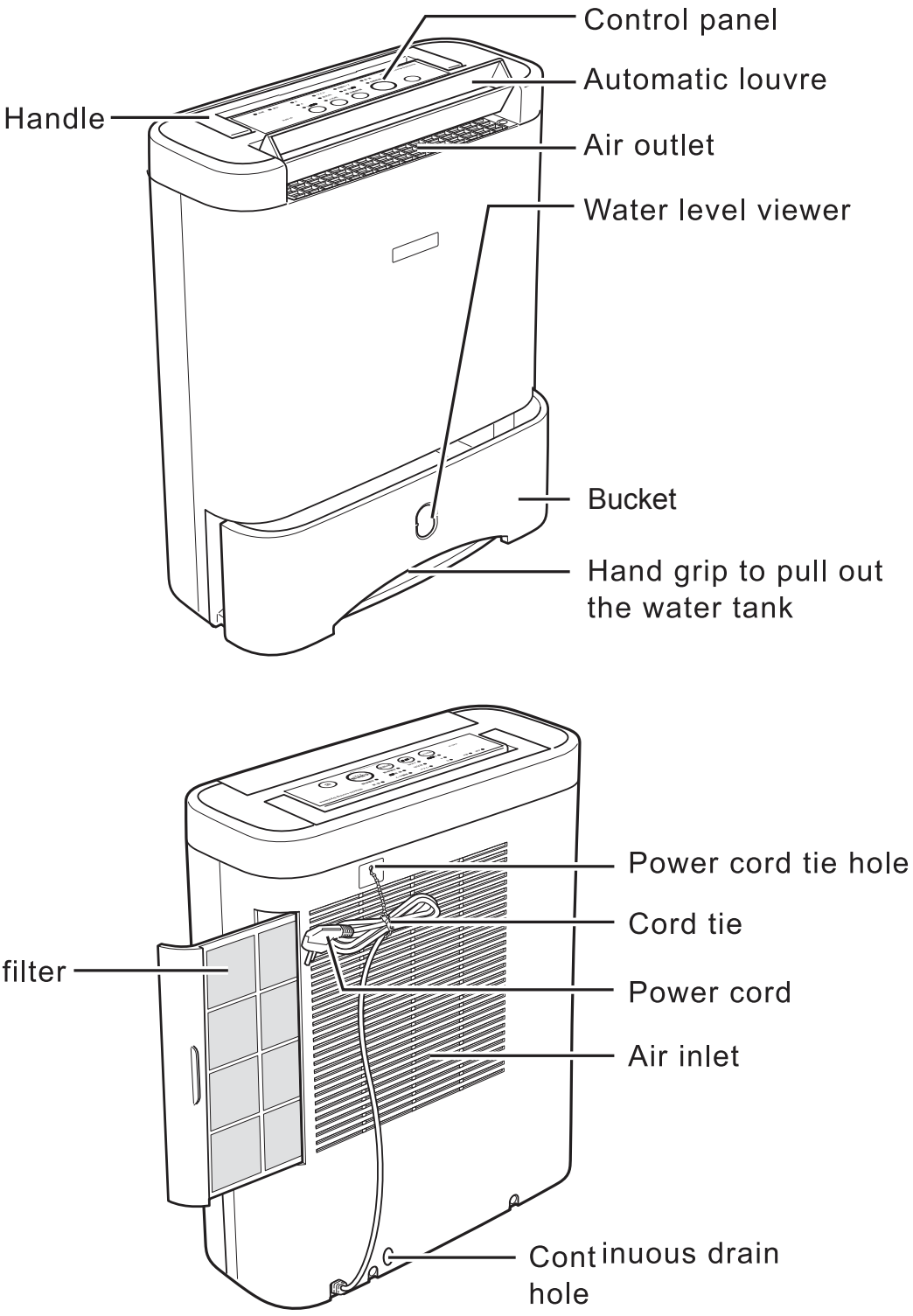
- **Compressorless dehumidifier** - uses desiccant rotor technology
- **Environmentally friendly** with no harmful gasses & quiet in operation
- **Moisture removal** - 10 litres/day (20°C RH60%)
- **Water tank capacity** - 3.5 litres
- **Electronic louvre**
- **Laundry mode** - includes power saving setting for summer use & turbo setting for winter
- **Up to 8 hour timer** - for added convenience
- **Temperature range for use** ~ 1°C - 40°C
- **Light & portable with carry handle**
- **Removable water bucket with handle**
- **Auto restart after power cut**

  ~ Once the power is restored after a power failure, the appliance will continue to operate at the selected settings prior to the power failure.

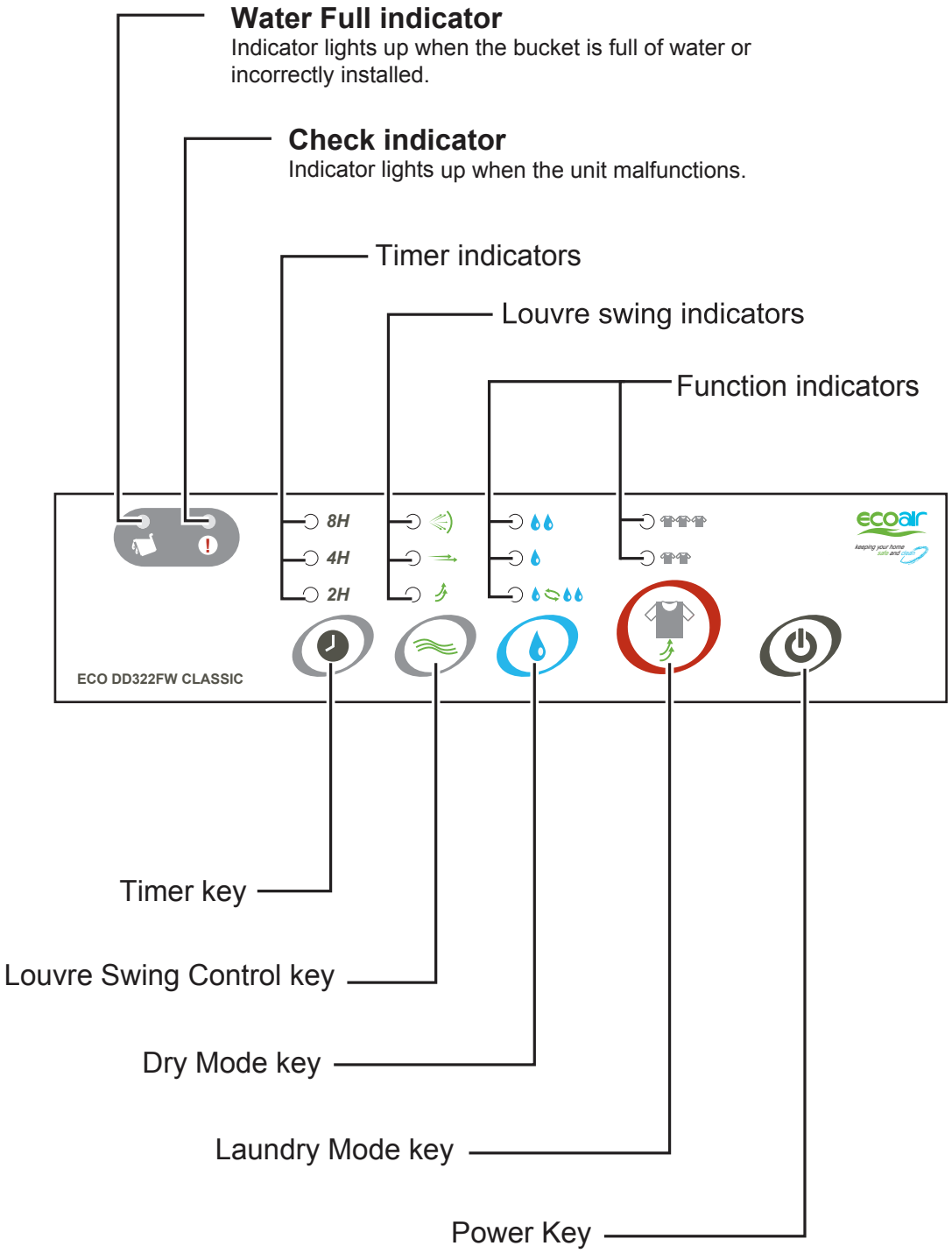


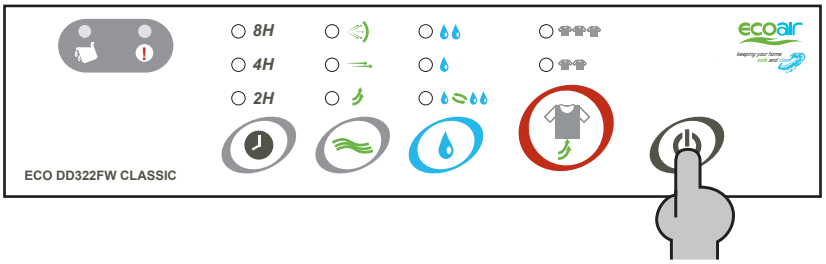


PRODUCT DESCRIPTION



THE CONTROL PANEL





ON and OFF

Connect the power plug to the appropriate electrical socket outlet.

Press the ON/OFF button to turn the appliance ON.

Press the ON/OFF button again to turn the appliance OFF.

Note: In the event of a power failure (Auto Restart)

Once the power is restored after a power failure, the appliance will automatically restart to operate at the selected settings prior to the power failure.

This includes the drying mode, swing function and time remaining in timer mode.

Note: After turning the appliance OFF

After turning the appliance OFF using the ON/OFF button, the fan will continue to run for a two minute period. This is a normal procedure and helps to cool & protect the internal components.

During this two minutes DO NOT remove the power plug from the electrical socket outlet; wait for the fan to stop running.

DRY MODE

- Press the "DRY MODE" Key to select Auto or Economy or Hi function.

MODE	DESCRIPTION
Auto **55%RH**	**To keep the room at a comfortable Relative Humidity (RH) level** ● The unit automatically keeps room humidity 55~60% RH. ● The fan speed & heater power are adjusted automatically.
Economy **55%RH**	**To run low fan speed** ● The unit automatically dehumidifies in low fan speed and low noise.
Hi **45%RH**	**Super dry mode to prevent condensation** ● The unit automatically keeps room humidity at 40~45% RH to prevent condensation in the room.

(Note: RH indicated has a ±10% RH tolerance and may vary depending on room temperature)

LAUNDRY MODE

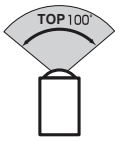
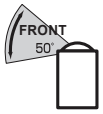
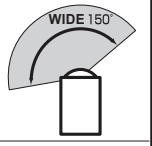
- Press the "LAUNDRY MODE" key for drying clothes or continuous running.

MODE	DESCRIPTION
Laundry Normal	**Suitable to save power** ● The unit automatically provides warm dry air to assist in clothes drying with low power.
Laundry Quick	**Suitable to dry clothes faster** ● The unit automatically provides heated air to dry clothes faster with high power.

AUTO SWING LOUVRE

- Press the "SWING" Key to select air louvre angle.

Up → Front → Wide → Hold (LED OFF)

MODE	DESCRIPTION
Up	• The automatic louvre swings in an upward range of approx 100° 
Front	• The automatic louvre swings in a front range of approx 50° 
Wide	• The automatic louvre swing in a wide range of approx 150° 
Hold	• The automatic louvre stops swinging when you press "SWING" key and turns the LED off.

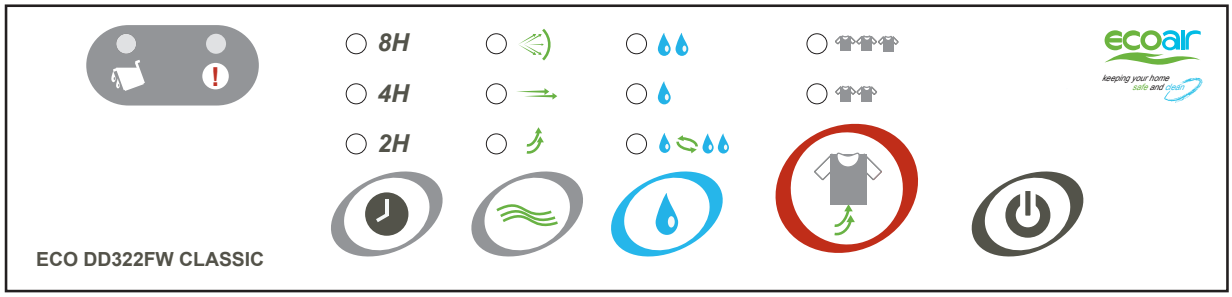
TIMER MODE

- Press the "TIMER" Key to select your desired running time (2,4 or 8 hours).
  The unit will automatically switch off at the end of the selected time period.
  As the time counts down the LED (4 or 2 hours) lights will indicate the time remaining.
- When no "TIMER" is set (the LED is off), the unit will run continuously, unless the bucket is already full.

2hrs → 4hrs → 8hrs → continuous (LED OFF)

Tip: Try using the timer when using Laundry mode to control energy consumption

HOW TO USE YOUR DEHUMIDIFIER



Timer

The unit switches off after the selected timer (2, 4 or 8 hours).

Swing

Select swing for Wide, Front or Up as desired. To hold the swing, press Swing until LED is off.

Laundry Mode

Use the Laundry modes to dry your clothes. The appliance will continuously dry the air until you switch to one of the normal modes described below, Hi, Economy or Auto.

Tip: It typically takes 2 – 8 hours to dry your laundry. You may want to put your dehumidifier on the timer when using the Laundry mode to avoid wasting energy.

Avoid using the Laundry modes for normal daily use. You may use for extreme drying of very damp rooms over 2 – 3 days and then switch to the recommended Economy mode.

Laundry Quick

Use to quickly dry your clothes over a shorter period of time or dry a very damp room quickly. Your dehumidifier will run on high Turbo. During the operation the power will be toggled to low energy mode as air humidity gets lower.

Laundry Normal

Use this Saving-Laundry mode to increase the toggling to low energy saver mode during operation.

Tip: Use the Laundry modes in moderation and switch to Economy mode for more energy savings once your laundry is dry or the room humidity is reduced to 55%RH

Dry Mode

Hi – Dries the air to approximately 45%RH and stops dehumidifying at this point but runs on fan only mode to sample the air for its humidity level. If the relative humidity rises, it dehumidifies again.

Tip: Use this to control a very damp room in the first couple of days and then switch to economy to save energy.

Economy – Dries the air to approximately 55%RH and runs on economy fan mode to sample the air for its humidity level. It will dehumidify again when the relative humidity rises.

*Tip: Use this mode on a **daily normal household** use to keep the humidity to a healthy level of 55%RH. (Bacteria and mould will not breed at this level).*

Auto – Same as Economy except that once the humidity level of 55% relative humidity level is reached, the fan will toggle between the normal and economy mode depending on the relative humidity and temperature to find a balance between the energy saving of the Economy mode and quicker drying in Hi mode.

Tip: Use this mode for maximum energy saving and for quiet operation.

RH = Relative Humidity

Full

Lights up when bucket is full or not properly inserted.

Check

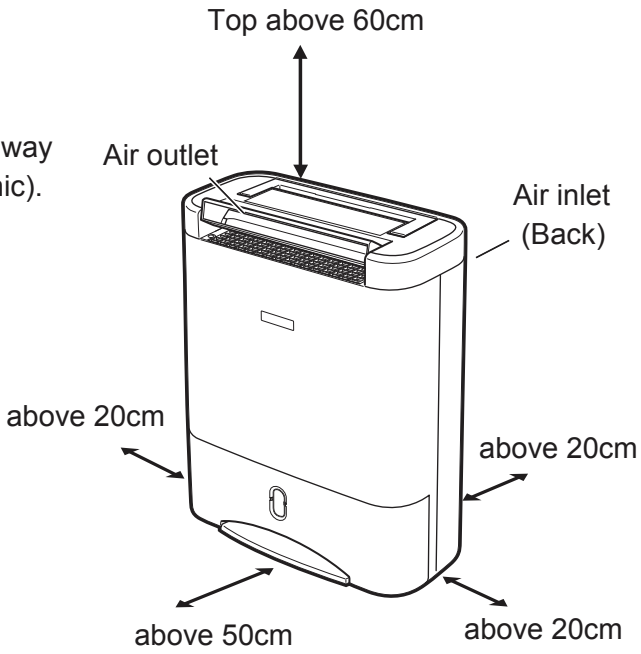
Lights up when:

1. Filter needs cleaning.
2. Appliance needs to cool down. Switch off and leave for 30 minutes and turn on again. This is normal.
3. In low humidity or temperature conditions.
4. In high temperature condition over 35°C

Tip: When the check light comes on, remove the main plug from the socket. Move it to another room after it cools down or when conditions allowed, put the main plug back to the socket and turn on the unit. Make sure the dehumidifier is placed in a safe distance away from any obstacles. (See unit setup in next page)

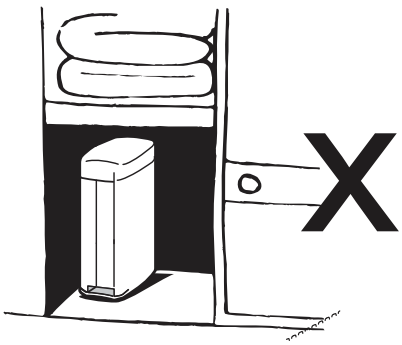
UNIT SETUP

- Place the unit in an upright position on a stable, level surface. (Please ensure unit is not sitting on its own cable)
- Please ensure the unit is a safe distance away from a wall or furniture (see the right graphic).
- Please keep clothes at a safe distance of 60 cm from air outlet of the unit to prevent water dripping into the unit.
- Where to position your dehumidifier? For best results position the dehumidifier somewhere central like a landing or a hallway. As long as the internal doors are open the excess moisture from all of the rooms in the house will migrate naturally towards the dehumidifier and be processed.



Caution !

Do not place the dehumidifier in a broom cupboard, boiler room, small unventilated rooms etc.
Avoid placing the dehumidifier in small confined areas or in close proximity to a radiator or heat source such as tumble driers, cookers etc. to avoid the dehumidifier from overheating.

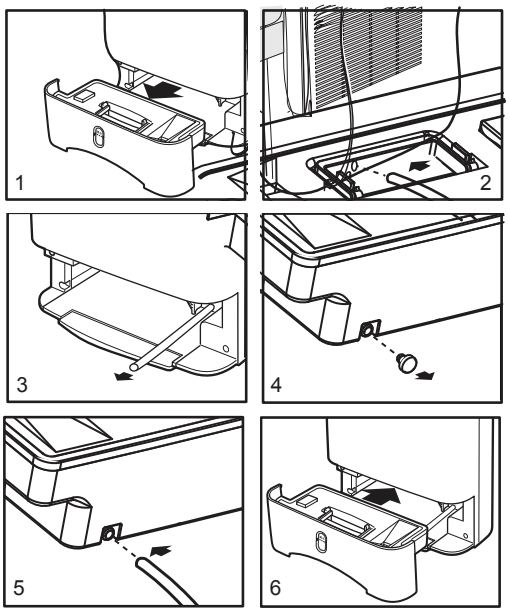


Do not use this dehumidifier in dusty or an industrial environment where particles can get into the dehumidifier. This will cause a malfunction and void your warranty.

PERMANENT DRAIN OPTION

A hose with an inner diameter of 12mm can be connected for continuous drainage.

1. Remove the bucket.
2. There is a through hole at the lower left corner on the back of the appliance.
3. Pass the hose through the hole.
4. Remove the plug from the drain hole at the back of the bucket. **Keep it safely for future use**.
5. Push and connect the hose firmly to the drain hole of the bucket.
6. Restore the bucket in the correct position.



MAINTENANCE

Cleaning the filter

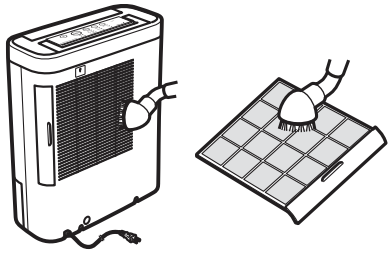
Tip: Clean your filter every 2 weeks to keep your air clean and prolong the life of your dehumidifier.

How to Clean

1. Turn off the unit and remove the filter from the unit.
2. Clean the filter using clean water and dry it before use, or alternatively clean using a vacuum cleaner.
3. Replace the filter in position.
4. If the filter is covered with dust, the airflow and performance of the unit will be affected. Check the filter periodically to ensure any dust is removed.

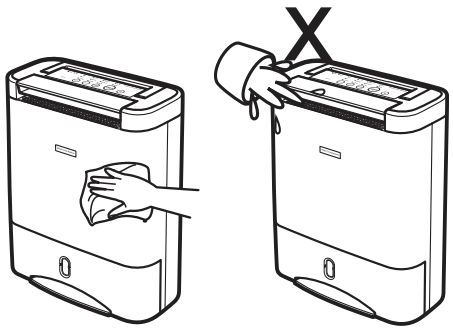
Caution !

Always ensure that fine particles or small objects do not enter the dehumidifier through the air outlet. Dust build-up in the unit can cause malfunction and overheating.



Cleaning the unit

1. Turn the appliance OFF, wait for the fan to stop and ensure the plug is removed from the power socket.
2. Clean the surface with a soft damp cloth.
3. Dry throughly with a tower after cleaning.
4. In order to avoid damage, do not wash the machine with water, or let water drip into the air inlet or outlet.

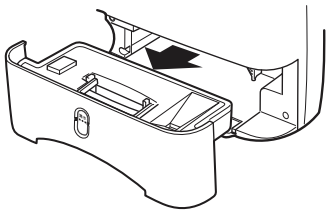


Before storing

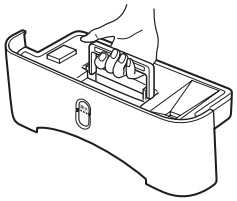
1. Turn off the unit, wait for it to stop and unplug from the power socket.
2. Clean and dry the bucket. Leave the unit to drain for approximately one day.
3. Clean the filter and the unit. Cover the unit to prevent it from gathering dust. Store upright in a cool dry place.
4. Do not expose to direct sunlight.

TO EMPTY THE BUCKET

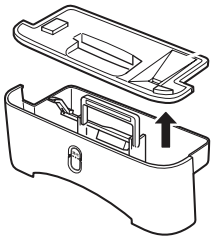
1. When the bucket is full, the Full/Check LED lights up and the unit stops.
2. Do not move the unit or remove the bucket, if the machine is still operating, as water may leak, damage the unit or cause an electric shock.
3. To remove the bucket, pull it out by gripping the bottom of the bucket, and lift carefully.
4. Remove the cover of bucket first, then pour the water away, clean the bucket and restore the cover and the bucket to the correct position.



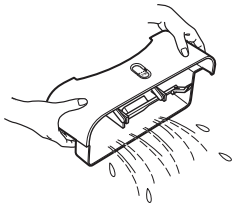
Ⓐ Pull bucket out



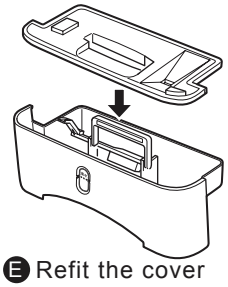
Ⓑ Lift by the handle



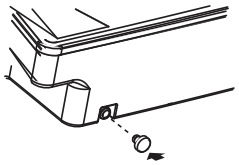
Ⓒ Remove the cover



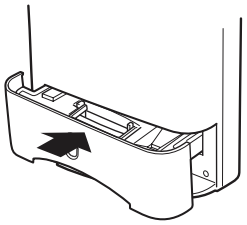
Ⓓ Pour the water contents



Ⓔ Refit the cover



Ⓕ Check the rubber plug is inside drain hole



Ⓖ Restore the bucket

NOTE:

- Clean the bucket with clean water if needed. Do not use detergent, solvent, abrasive or hot water to avoid damage to the appliance.
- Do not remove or damage the float in the bucket, the unit will not work correctly.
- The bucket cover must be well fitted in position.
- The "Full/Check" LED lights if the bucket is not well in Unit.

TROUBLESHOOTING

The following conditions are normal:

1. The fan is still running about 2 minutes after turning off the the unit.
2. The unit works within room temperature about 1~40ºC. It may stop operation out of this range or when the air inlet or outlet is covered. (The ! LED light will illuminate)
3. The unit includes heater function that could increase the room temperature.

If your Dehumidifier stops working or ! LED illuminates, please check the following items first.

When the unit fails to run:

- ➡ Is power cord unplugged or the power off?
- ➡ Is light on? Check the bucket is well in position? Check and replace the bucket. Ensure unit is on a level and flat surface.

When the performance seems poor:

- ➡ Is there any door or window open?
- ➡ Is steam being generated in the room?
- ➡ Is the room too big?
- ➡ Is the filter dirty? Clean it. Refer to the filter cleaning instructions.
- ➡ Is the inlet or the outlet covered?
- ➡ Try the laundry mode operation and let it run in this mode for a day.
- ➡ Is the unit covered?
- ➡ Is the unit positioned at the required minimum distances away from walls or objects? (See page 11 Unit Setup)

When noise occurs:

- ➡ Is the unit on a horizontal flat and level surface? Move and reset the unit.
- ➡ Is the air filter dirty? Clean the filter.

NOTE:

1. If the ! LED illuminates, turn off the unit, unplug from the power socket, check and clean the filter. If it is dirty, remove any obstacle that covers the air inlet or outlet, and wait for at least ten minutes before plugging in and switching back on.

2. Under low temperature and low humidity conditions, ! may come on to prevent unit from overheating. Move unit to a warmer and damper room and wait 30 minutes before switching on.

Do not try to repair it by yourself, as this could cause an electrical shock and void your warranty.

Smell coming from the dehumidifier

When you first use the dehumidifier and periodically afterwards you might notice a smell coming from the dehumidifier. This is caused by the Zeolite desiccant material and is not a sign that the dehumidifier is faulty, nor is it harmful to humans or pets. The smell occurs because the Zeolite absorbs odours from items like cigarettes, cosmetics, hair sprays, building materials and new furniture and then when the desiccant is heated the smell is discharged into the room. This smell has been described as being like a burning smell or a sour smell. It is normal, will not last long and is not a sign of a fault.

Amount of water collected

When you first use your dehumidifier it will work harder to reduce the room humidity to it's target of eg. 55-60%RH (on Auto mode), this is the time when it will produce the most water and need emptying most frequently. As the room becomes dryer the dehumidifier collects less water and runs at a lower fan speed. This is normal. When the target relative humidity has been reached the air coming out of the dehumidifier will not be heated and it will only be running in low fan mode. This is because there is no need for dehumidification at this point and the dehumidifier is sampling the air to check the current relative humidity to see if dehumidification is required.

If you find that you still have condensation on your windows or you need to dry the air further then using the High fan speed, or the Turbo Laundry mode, will force the dehumidifier to dry the air further to 40-45%RH. This might well be necessary if you have single glazed windows or if the outside air temperature drops to freezing.

Ventilation

The dehumidifier must not be placed in a confined space. Move the dehumidifier to a well ventilated area for example in a hallway, landing or a ventilated room. Ensure that its not in close proximity to any form of heat source, such as a radiator or appliances that generate heat (eg tumble dryer or cooker). The air inlet and outlet must not be obstructed.

SPECIFICATIONS

Model: ECO DD322FW CLASSIC

Operating Temperature Range: 1ºC - 40ºC

Dehumidification: 10 Litres / Day (20°C, 60%RH)

Water Tank Capacity: 3.5 Litres

Power Comsumption (H/L): 740W / 440W

Voltage: 220-240V ~ /50Hz

N.W: 7.8 Kg

G.W: 9.5 Kg

Product Size: 55.0H x 41.6W x 18.6D cm

SERVICE AND WARRANTY

ONE (1) YEAR LIMITED WARRANTY

Save This Warranty Information

Eco Air guarantees this product free from defects in materials and workmanship for a period of one (1) year from the date of purchase. Coverage is valid only with proof of purchase.

This unit must be operated under conditions as recommended, at voltage indicated on the unit. Any attempts made to service or modify the unit, will render this WARRANTY VOID. The actual product may differ slightly from illustration.This warranty is in addition to, and does not affect, your statutory rights.

For further information, please contact 020 8459 2458.

This product has been manufactured to comply with the EC Directives 2006/95/EC and 2004/108/EC.

We recommend that you note the details of your purchase below and retain your original proof of purchase receipt with this manual. Keep these documents safe in the event of a warranty claim.

Date of purchase: _____

Retailer name: _____

Serial number: _____

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